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G Karypis, MINNESOTA UNIV MINNEAPOLIS DEPT OF ... - 2002 - stinet.dtic.mil
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G Lu - Journal of Applied Crystallography, 2000 - bioinfo1.mbfys.lu.se
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Sim: a utility for detecting similarity in computer programs

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↑ ABSTRACT

We describe the design and implementation of a program called sim to measure similarity between two C computer programs. It is useful for detecting plagiarism among a large set of homework programs. This software is part of a project to construct tools to assist the teaching of computer science.

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↑ INDEX TERMS

Primary Classification:
K. Computing Milieux
↳ **K.3** COMPUTERS AND EDUCATION

General Terms:
Documentation, Experimentation

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Partition testing, stratified sampling, and cluster analysis

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↑ ABSTRACT

We present a new approach to reducing the manual labor required to estimate software reliability. It combines the ideas of *partition testing* methods with those of *stratified sampling* to reduce the sample size necessary to estimate reliability with a given degree of precision. Program executions are stratified by using automatic *cluster analysis* to group those with *similar features*. We describe the conditions under which stratification is effective for estimating software reliability, and we present preliminary experimental results suggesting that our approach may work well in practice.

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↑ INDEX TERMS

Primary Classification:

D. Software

↳ **D.2** SOFTWARE ENGINEERING

↳ **D.2.4** Software/Program Verification

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S9	596	714/819.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/13 16:58
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S12	5289102	714/???.ccls. and (determin$3 or identify$3 or locat$3) near3 (similar$3 near3 (code or section or interval or phase or cluster)) and (classify$3 or partition$3) near3 (code or section or interval or phase or cluster) and "time varying behavior" analytical "finding similar sections" "plurality of intervals" ((track or tracking) adj statistic) ((identify or compar$4) near2 behavior) (similar$3 near2 interval) averag$3 variance maximum scor$3 benchmark$3 sampl$3 (length near2 time) metric frequency$2 "analysis points" "basic block" profil$3 simulat$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 17:29

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S14	29	(run$4 or execut$3) near3 (program or code or interval or segment or portion or section or cluster) and (profil$3 or tracking or track or trace or tracing or record$3) near3 (metric or statistic or behavior) and (determin$5 or calculat$3 or analyz$3) near3 (similarity or similar or differenc$3 or closest or "most likely") and (identify$3 near3 behavior)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 17:34
S15	41	(run$4 or execut$3) near3 (program or code or interval or segment or portion or section or cluster) and (profil$3 or tracking or track or trace or tracing or record$3) near3 (metric or statistic or behavior) and (determin$5 or calculat$3 or analyz$3) near3 (similarity or similar or differenc$3 or closest or "most likely") and (compar$4 near3 behavior)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 17:35
S16	67	717/???.ccls. and (run$4 or execut$3) near3 (program or code or interval or segment or portion or section or cluster) and (profil$3 or tracking or track or trace or tracing or record$3) near3 (metric or statistic or behavior) and (determin$5 or calculat$3 or analyz$3) near3 (similarity or similar or differenc$3 or closest or "most likely")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 17:35

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S17	13	714/???.ccls. and (run$4 or execut$3) near3 (program or code or interval or segment or portion or section or cluster) and (profil$3 or tracking or track or trace or tracing or record$3) near3 (metric or statistic or behavior) and (determin$5 or calculat$3 or analyz$3) near3 (similarity or similar or differenc$3 or closest or "most likely")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 17:35
S18	129	"analysis points" same similar$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 17:54
S19	1	S13 and S18	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 17:36
S20	1	(determin$3 or identify$3 or locat$3) near5 "analysis points" same similar$3 and (execut$3 or run$4 or simulat$3 or emulat$3) near5 (code or section or interval or phase or portion)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 17:40
S21	42	(determin$3 or identify$3 or locat$3) same "analysis points" and similar$3 and (execut$3 or run$4 or simulat$3 or emulat$3) near5 (code or section or interval or phase or portion)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 17:49
S22	128	S18 not S21	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 17:49
S23	5306	identif$7 near5 (similar$3 near3 (region or section or portion or segment or interval or code or partition or cluster))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 17:56
S24	13	717/???.ccls. and identif$7 near5 (similar$3 near3 (region or section or portion or segment or interval or code or partition or cluster))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 17:56

EAST Search History

S25	13	714/???.ccls. and identif$7 near5 (similar$3 near3 (region or section or portion or segment or interval or code or partition or cluster))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 17:57
S26	26	S24 or S25	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 18:00
S27	3180	similarity.ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 18:01
S28	24	S23 and S27	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 18:01
S29	24	S28 not S26	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 18:01
S30	17	("4853851" | "5132972" | "5291497" | "5335342" | "5408642" | "5423027" | "5440723" | "5522036").PN. OR ("5699507"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/13 18:06
S31	9	("5440742").PN. OR ("5574837"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/13 18:12
S32	28	("4319221" | "4326101" | "4467437" | "4484348" | "4528688" | "4530110" | "4559604" | "4624011" | "4651289" | "4716593" | "4723290" | "4731845" | "4745562" | "4752957" | "4773099" | "4783806" | "4876731" | "4893255" | "4897811").PN. OR ("5440742").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/13 18:16
S33	35	("4319221").URPN.	USPAT	OR	OFF	2006/07/13 18:27
S34	34	S33 not S31 not S30	USPAT	OR	OFF	2006/07/13 18:27
S35	32	S33 not S31 not S30 not S32	USPAT	OR	OFF	2006/07/13 18:27

EAST Search History

S36	0	"identifying similarities in code segments".ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 10:35
S37	75	(identifying and similarities).ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 10:35
S38	1	(identifying and similarities).ti. and lucent.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 14:36
S39	346	(code or instruction) near3 similarit$3 and (compress$3 or condens$3 or minimal or minimiz$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 14:38
S40	179	(code or instruction) near3 similarit$3 and phase	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 14:38
S41	1	(code or instruction) near3 similarit$3 and phase near3 (signature or name or ID)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 14:38
S42	11	(code or instruction) near3 similarit$3 and phase and (717/???.ccls. or 714/???.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 14:46
S43	0	(code or instruction) near3 similarit$3 near5 (deviate or deviation or transition$3) and (717/???.ccls. or 714/???.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 14:47
S44	98	(similarit$3 or (most$2 near2 like$2)) near5 (deviate or deviation or transition$3) and (717/???.ccls. or 714/???.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 14:48
S45	15	(similarit$3 or (most$2 near2 like$2)) near5 (deviate or deviation or transition$3) and (717/???.ccls. or 714/???.ccls.) and (id or identifier or signature or name)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:02

EAST Search History

S46	562	(similarit$3 or (most$2 near2 like$2)) near5 (deviate or deviation or transition$3) and (compress$3 or consolidat$3 or minimal or minimize)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:04
S47	1	S39 and S46	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:04
S48	54427	(similarit$3 or (most$2 near2 like$2)) near5 (metric or statistic or probability or likely) and (compress$3 or consolidat$3 or minimal or minimize)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:05
S49	148	(similarit$3 or (most$2 near2 like$2)) near5 (metric or statistic or probability) same (compress$3 or consolidat$3 or minimal or minimize)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:05
S50	5	(similarit$3 or (most$2 near2 like$2)) near5 (metric or statistic or probability) same (compress$3 or consolidat$3 or minimal or minimize) and (717/???.ccls. or 714/???.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:16
S51	0	(similarit$3 or (most$2 near2 like$2)) same (confidence and variance) and (717/???.ccls. or 714/???.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:17
S52	41	(similarit$3 or (most$2 near2 like$2)) and (confidence and variance) and (717/???.ccls. or 714/???.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:18
S53	1	(similarit$3 or (most$2 near2 like$2)) and (confidence and variance) and (717/???.ccls. or 714/???.ccls.) and (goodness near2 fit)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:18
S54	4	(similarit$3 or (most$2 near2 like$2)) and (confidence and variance) and (717/???.ccls. or 714/???.ccls.) and clustering	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:18

EAST Search History

S55	5	clustering and (confidence and variance) and (717/???.ccls. or 714/???.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:20
S56	5	S53 or S54 or S55	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:19
S57	503	clustering and (confidence and variance) and similarity and (program or code)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:21
S58	3	clustering and (confidence and variance) and similarity and (program or code) and "program behavior"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:22
S59	372	clustering and (confidence and variance) and similarity and (computer near3 (program or code or software or application))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:24
S60	1	clustering same (confidence and variance) same similarity and (computer near3 (program or code or software or application))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:24
S61	68	clustering and (confidence and variance) and similarity and (computer near3 (program or code or software or application)) and 7??/???.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:51
S62	2	"5699507".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:51
S63	17	("4853851" | "5132972" | "5291497" | "5335342" | "5408642" | "5423027" | "5440723" | "5522036").PN. OR ("5699507"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/17 16:04
S64	12954	(mecl or edgesim or mojo)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/17 16:04

EAST Search History

S65	12895	(mecl or edgesim)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/17 16:05
S66	2112	(mecl or edgesim) same similar$3	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/17 16:05
S67	7	(mecl or edgesim) same similar$3 same cluster$3	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/17 16:06
S68	3005	clustering same related	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/17 16:10
S69	0	S66 and S68	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/17 16:10
S70	11	S61 and S68	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/18 08:05
S71	6772	(statical$2 or statistic$4 or metric or metadata or analysis or analyzing) same cluster$3 same (optimal$2 or optimiz$5 or optimis$5 or minimiz$5 or minimal$2 or least or less or small$3 or reduc$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/18 08:08
S72	1060	(statical$2 or statistic$4 or metric or metadata or analysis or analyzing) same cluster$3 same (optimal$2 or optimiz$5 or optimis$5 or minimiz$5 or minimal$2 or least or less or small$3 or reduc$4)and 7??/???. ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/18 08:08
S73	222	(execut$4 or run$4 or dynamic$4) same (statical$2 or statistic$4 or metric or metadata or analysis or analyzing) same cluster$3 same (optimal$2 or optimiz$5 or optimis$5 or minimiz$5 or minimal$2 or least or less or small$3 or reduc$4) and 7??/???. ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/18 08:10

EAST Search History

S74	203	(execut$4 or run$4 or dynamic$4) same (statical$2 or statistic$4 or metric or metadata or analysis or analyzing) same cluster$3 same (optimal$2 or optimiz$5 or optimis$5 or minimiz$5 or minimal$2 or least or less or small$3 or reduc$4) and 7??/???. ccls. and similar$3	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/18 08:10
S75	40	(execut$4 or run$4 or dynamic$4) same (statical$2 or statistic$4 or metric or metadata or analysis or analyzing) same cluster$3 same (optimal$2 or optimiz$5 or optimis$5 or minimiz$5 or minimal$2 or least or less or small$3 or reduc$4) and 7??/???. ccls. and similar$3 near3 (like$4 or distance or degree or number)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/18 10:05
S76	1	"5953006".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/18 10:40
S77	0	("5953006" "5574837" "5699507"). pn. and (confidence or variance)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/18 11:04
S78	0	("5953006" "5574837" "5699507"). pn. and (simulat$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/18 11:11
S79	0	("5953006" "5574837" "5699507"). pn. and ("number of instructions")	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/18 11:11
S80	2	("5953006" "5574837" "5699507"). pn. and (id or identifier)	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/18 11:11
S81	2	"5574837".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 10:38
S82	2	"5699507".PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 08:41

EAST Search History

S83	20	("4853851" | "5132972" | "5291497" | "5335342" | "5408642" | "5423027" | "5440723" | "5522036").PN. OR ("5699507"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/11 11:21
S84	1	"5574837".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/11 11:21
S85	13	("5440742").PN. OR ("5574837"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/11 12:47
S86	315	similarity.ti.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/11 12:47
S87	275	similarity.ti. and (time or "number of")	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/11 12:48
S88	203	similarity.ti. and (time or "number of") and (execut$4 or runtime)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/11 12:50
S89	38	similarity.ti. and (time or "number of") and (execut$4 or runtime) and interval	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/11 12:57
S90	120	similarity.ti. and (time$1 or "number of" or count) and (run$4 or execut$4) near3 (code or instruction or software)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 14:08
S91	108	S90 not S89	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 13:00

EAST Search History

S92	10	("5067152" | "5101475" | "5469354" | "5612865" | "5794178" | "5806061" | "6061734" | "6134532" | "6349296" | "6603470").PN. OR ("7158961"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/11 14:06
S93	8167	similar$3 and (time$1 or "number of" or count) near2 interval and (test$3 or emulat$3 or simulat$3) near3 (code or instruction or software)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 14:09
S94	34	(analysis or compar$4) near5 similar$3 same (time$1 or "number of" or count) near2 interval and (test$3 or emulat$3 or simulat$3) near3 (code or instruction or software)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 14:10
S95	34	S94 not S89	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 14:14
S96	31897	(sampl$3 near3 interval) and (similar or similarity or similarities)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 14:15
S97	6146	(sampl$3 near3 interval) and (similar or similarity or similarities) and (simulat$3 or emulat$3) and (count or number or length or time or timed)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 14:17
S98	435	(sampl$3 near3 interval) same (compar$4 or analyz$3 or analysis or determin$5 or classify$3 or identify$3) same (similar or similarity or similarities) and (simulat$3 or emulat$3 or execut$3) and (count or number or length or time or timed)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 16:20

EAST Search History

S99	105	(sampl$3 near3 interval) same (compar$4 or analyz$3 or analysis or determin$5 or classify$3 or identify$3) same (similar or similarity or similarities) and (simulat$3 or emulat$3 or execut$3) and (count or number or length or time or timed) and (similar or similarity or similarities) near5 (function$5 or behavior or activit$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 14:28
S100	2	"20050010902"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 14:28
S101	100	(sampl$3 near3 interval) same (compar$4 or analyz$3 or analysis or determin$5 or classify$3 or identify$3) same (similar or similarity or similarities) and (simulat$3 or emulat$3 or execut$3) near3 (software or code or instruction) and (count or number or length or time or timed)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 16:12
S102	8	(717/???.ccls. or 714/???.ccls.) and (sampl$3 near3 interval) same (compar$4 or analyz$3 or analysis or determin$5 or classify$3 or identify$3) same (similar or similarity or similarities) and (simulat$3 or emulat$3 or execut$3 or dynamic$3 or monitor$3 or profil$3) and (count or number or length or time or timed)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 16:27
S103	0	(703/???.ccls.) and (sampl$3 near3 interval) same (compar$4 or analyz$3 or analysis or determin$5 or classify$3 or identify$3) same (similar or similarity or similarities) and (simulat$3 or emulat$3 or execut$3 or dynamic$3 or monitor$3 or profil$3) and (count or number or length or time or timed)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 16:30

EAST Search History

S104	7	(cluster$3 and constraint and weight$3) and (sampl$3 near3 interval) same (compar$4 or analyz$3 or analysis or determin$5 or classify$3 or identify$3) same (similar or similarity or similarities) and (simulat$3 or emulat$3 or execut$3 or dynamic$3 or monitor$3 or profil$3) and (count or number or length or time or timed)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 16:35
S105	103	(sampl$3 near3 interval) same (compar$4 or analyz$3 or analysis or determin$5 or classify$3 or identify$3) near5 (similar or similarity or similarities) and (simulat$3 or emulat$3 or execut$3 or dynamic$3 or monitor$3 or profil$3) and (count or number or length or time or timed)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 16:42
S106	91	S105 not S101	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 16:36
S107	46	sampl$3 near3 (interval or section or segment or portion or subsection) same (similar or similarity or similarities) and (simulat$3 or emulat$3 or execut$3 or dynamic$3 or monitor$3 or profil$3 or sampl$3) and (count or number or length or time or timed) and (703/???.ccls. or 717/???.ccls. or 714/???.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 17:01
S108	70	(interval or section or segment or portion or subsection) and degree near3 (similar or similarity or similarities) and (simulat$3 or emulat$3 or execut$3 or dynamic$3 or monitor$3 or profil$3 or sampl$3) and (count or number or length or time or timed) and (703/???.ccls. or 717/???.ccls. or 714/???.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 17:02

EAST Search History

S109	228	(interval or section or segment or portion or subsection) and (degree or amount or measur$4) near3 (similar or similarity or similarities) and (simulat$3 or emulat$3 or execut$3 or dynamic$3 or monitor$3 or profil$3 or sampl$3) and (count or number or length or time or timed) and (703/???.ccls. or 717/???.ccls. or 714/???.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 17:05
S110	0	S109 not S108 not S109 not S105	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 17:06
S111	157	S109 not S108 not S107 not S105	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/12 07:23
S112	103	(sampl$3 near3 interval) same (compar$4 or analyz$3 or analysis or determin$5 or classify$3 or identify$3) near5 (similar or similarity or similarities) and (simulat$3 or emulat$3 or execut$3 or dynamic$3 or monitor$3 or profil$3) and (count or number or length or time or timed)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/12 07:23
S113	46	sampl$3 near3 (interval or section or segment or portion or subsection) same (similar or similarity or similarities) and (simulat$3 or emulat$3 or execut$3 or dynamic$3 or monitor$3 or profil$3 or sampl$3) and (count or number or length or time or timed) and (703/???.ccls. or 717/???.ccls. or 714/???.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/12 07:23
S114	70	(interval or section or segment or portion or subsection) and degree near3 (similar or similarity or similarities) and (simulat$3 or emulat$3 or execut$3 or dynamic$3 or monitor$3 or profil$3 or sampl$3) and (count or number or length or time or timed) and (703/???.ccls. or 717/???.ccls. or 714/???.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/12 07:23

EAST Search History

S115	228	(interval or section or segment or portion or subsection) and (degree or amount or measur$4) near3 (similar or similarity or similarities) and (simulat$3 or emulat$3 or execut$3 or dynamic$3 or monitor$3 or profil$3 or sampl$3) and (count or number or length or time or timed) and (703/???.ccls. or 717/???.ccls. or 714/???.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/12 07:23
S116	157	S115 not S114 not S113 not S112	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/12 09:15
S117	3	"2002015135"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/12 09:15
S118	2	"20020015135"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/12 09:16
S119	1	smmt and similarity and metric	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/12 09:27
S120	27	smmt	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/12 11:27